

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 83304422.5

(51) Int. Cl.³: **H 01 B 13/02**

(22) Date of filing: 01.08.83

(30) Priority: 24.08.82 CA 409963

(43) Date of publication of application:
04.04.84 Bulletin 84/14

(88) Date of deferred publication of search report: 08.08.84

(84) Designated Contracting States:
CH DE FR GB IT LI NL SE

(71) Applicant: **NORTHERN TELECOM LIMITED**
1600 Dorchester Boulevard West
Montreal Quebec H3H 1R1(CA)

(72) Inventor: **Garner, John Nicholas**
169 Liddell Crescent
Kingston Ontario, K7M 2T5(CA)

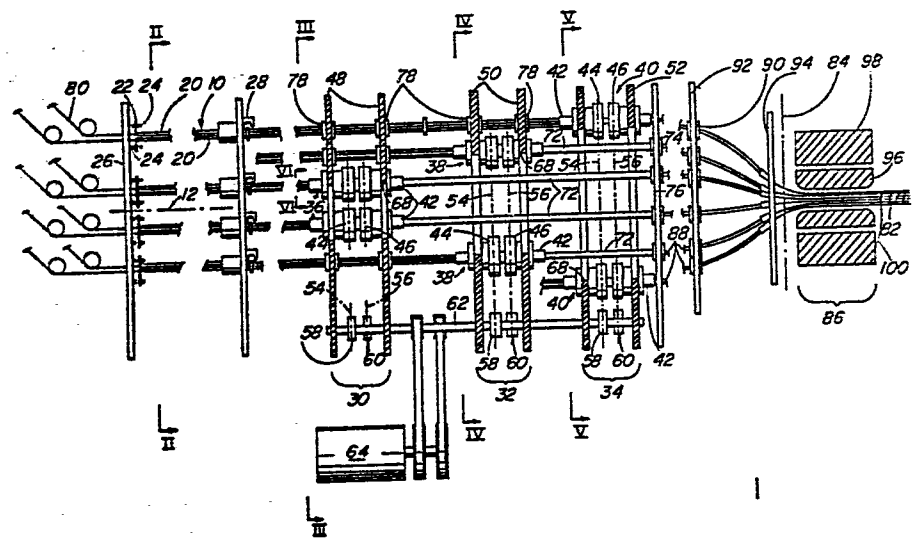
(72) Inventor: **Roberge, Jean March**
125 Somervale Gardens, Apt. 8
Pointe Claire Quebec, H9R 3H6(CA)

(72) Inventor: **Axiuk, Oleq**
266 Willowtree Place
Pinecourt Quebec, J7V 3W1(CA)

(74) Representative: **Crawford, Andrew Birkby et al,**
A.A. THORNTON & CO. Northumberland House 303-306
High Holborn
London WC1V 7LE(GB)

(54) **Forming cable core units.**

(57) Cable core unit forming apparatus having a plurality of wire guide means (10), each for stranding wires together. The guide means are laterally spaced and each extends along a longitudinal axis to be non-rotatable about the axis at its upstream end. It is rotationally flexible to be torsionally twisted by rotatable twisting means (36, 38, 40) at its downstream end. Each guide means is disposed at one of two or more twisting stations (30, 32, 34). Feedpaths for wires from other twisting stations converge to a stranding station for the core unit. Wire separation tubes (72, 88) prevent the wires from stranding into pairs until immediately before the stranding station. Each separation tube (88) is rotated about its axis which is maintained curved to follow one of the converging paths and the tube is flexible to enable its curved axis position to be maintained during rotation.





European Patent
Office

EUROPEAN SEARCH REPORT

0104725

Application number

EP 83 30 4422

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
A	FR-A-2 144 393 (WESTERN ELECTRIC) * Page 11, line 3 - page 32, line 40; figures 1-8 *	1	H 01 B 13/02
A	DE-A-2 262 705 (PHILLIPS CABLES) * Page 6, line 1 - page 9, paragraph 4; figures 1-4 *	1	
A	FR-A-2 365 865 (ELTRA) * Page 8, line 8 - page 11, line 7; figures 6-9 *	1	
A,D	US-A-3 910 022 (REED) * Column 1, line 56 - column 4, line 64; figures 1-3 *	1,7-9	
A	DE-A-2 558 095 (SIEMENS) * Page 5, last paragraph - page 7, paragraph 3; figure 1 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 3) H 01 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-04-1984	Examiner DEMOLDER J.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			